

Product datasheet

Compound 55, DOT1L Inhibitor, DOT1L inhibitor
ab145525

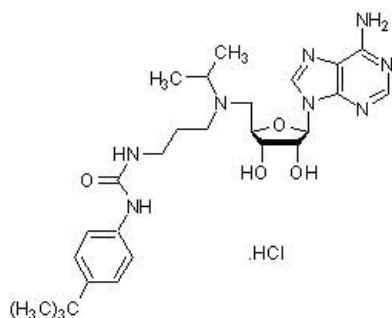
Overview

Product name	Compound 55, DOT1L Inhibitor, DOT1L inhibitor
Description	Highly potent, selective DOT1L inhibitor
Biological description	Highly potent, selective DOT1L inhibitor ($K_i = 0.46$ nM). Shows antiproliferative effects (EC_{50} values are 4.4, 8.1 and 10 μ M for MV4-11, THP1 and NB4 leukemia cells, respectively). Binds to the DOT1L:nucleosome complex ($K_d = 66$ nM). Competes with SAM/SAH, but not the substrate nucleosome, on binding to DOT1L.

Purity > 98%

CAS Number 1381761-52-9

Chemical structure



Properties

Chemical name	5'-Deoxy-5'-[[3-[[[4-(1,1-dimethylethyl)phenyl]amino]carbonyl]amino]propyl](1-methylethyl)adenosine hydrochloride
Molecular weight	577.13
Molecular formula	$C_{27}H_{40}N_8O_4 \cdot HCl$
Storage instructions	Store at $-20^{\circ}C$. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in water to 50 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at $-20^{\circ}C$. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room

temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions \(FAQ\) page](#) for more details.

SMILES

Cl.CC(C)(C)c1ccc(cc1)NC(=O)NCCCN(C[C@H]4O[C@@H](n3cnc2c(N)ncnc23)C(O)[C@H]4O)C(C)C

Source

Synthetic

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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